SITE Elliott Shooting Park
ID# MOD980968393
BREAK 13
OTHER
4-21-88
0758

APR 21 1988

James and Susan Downs
7525 Arlington
Raytown, Missouri 64138

Dear Mr and Mrs Downs

Enclosed are analytical data on surface soil samples collected by a contractor to the Environmental Protection Agency (EPA) from your property and surrounding properties These data are provided to the property owners, for their information, as required by the Comprehensive Environmental Response, Compensation and Liability Act ("Superfund"), as amended by the Superfund Amendments and Reauthorization Act

The EPA has been monitoring the cleanup at the Elliott Shooting Park, where surface soils had been found to contain lead as a result of the deposition of lead shot The EPA had received information that, in years past, the shooting park may have been larger than it is now The purpose of this sampling was to determine if the properties surrounding Elliott Shooting Park in your neighborhood were contaminated with lead as a result of lead shot deposition

The enclosed analytical data indicate no above background lead contamination of offsite soils (Lead is a natural constituent of many soils at nontoxic levels commonly referred to as "background") Sample NOP5B003 was collected from surface soils on your property The available data indicate that the properties surrounding the shooting park do not contain lead in toxic or above background concentrations

The samples collected for EPA were also analyzed for other metals, including arsenic In our review of these data we noted that several soil samples contained above background levels of arsenic (Background for arsenic in soils is approximately 5-20 parts per million, "ppm") However, sample NOPL5B003, collected from your property, did not contain any arsenic at the detection limit of 20 ppm Although some of the soil samples collected from your neighborhood were reported to contain above background concentrations of arsenic, we do not believe the concentrations of arsenic reported pose an unacceptable threat to human health We have consulted with the Federal Agency for Toxic Substances and Disease Registry (ATSDR) and have been advised by ATSDR that environmental cleanups of arsenic-contaminated sites have accepted higher levels of arsenic in surface soils than the highest level reported in these samples (230 ppm)

WSTM SPFD SCOM DCRAWFORD [illegible] epasdt2
CRAWFORD SKOWRONSKI WURTZ RITTER ALDERMAN BRAECKEL SMITH MORBY
SCOM ATSDR PBAF CIGL TOPE SNSL SCOM SPFD
4/1/88 4/1/88 4/18/88 PBAF 4/11/88 with corrections 4/14/88 4/21/88

We have also reviewed the existing data on the Elliott Shooting Park and relevant literature regarding the presence of arsenic in lead shot The available data and literature indicate that the shooting park and lead shot are probably not the source of the above background concentrations of arsenic reported in these samples A more probable source of the arsenic would be past uses of arsenic compounds in the area as pesticides or herbicides In the past arsenic compounds have been used for weed control, on fruit trees and to treat wood fence posts Currently there are no arsenic compounds approved for use as herbicides or pesticides by EPA Any pesticide-related concentrations of arsenic in environmental samples would therefore probably be the result of past applications Arsenic is environmentally persistent and may be found in the environment many years after is has last been used

Thank you for your cooperation in allowing EPA to collect samples from your property In summary, EPA does not feel that the reported levels of arsenic or lead found in the offsite soil samples pose an unacceptable threat to health or the environment However, if you have any additional questions please contact me at 236-2856 If you have any questions about health-related matters, you may also contact the ATSDR Regional Health Advisors, Ed Skowronksi or Dave Parker, at 236-2856

Sincerely yours,

David V Crawford
Remedial Project Manager
Waste Management Division
Superfund Compliance

encl analytical data on NOP5B

cc William Dexter, Vice-President, Boatman's Raytown Bank
Mary Erio, Burns & McDonnell
Keith Schardein, Missouri Department of Natural Resources
Larry Sheridan, WATR

bcc Gerhardt Braeckel, CNSL
Rowena Michaels, PBAF
Steve Wurtz, PBAF
Ron Ritter, CIGL
Paul Doherty, ENSV SINV
Jerry McKinney, ENSV LABO
Russ Krohn, Tetra Tech
Jill Biesma, Jacobs Engineering
Ed Skowronski, ATSDR
Gary Lynn, Chairman, Raytown Zoning & Planning Commission
Gene Yoekum, Director, Raytown Public Works

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
25 FUNSTON ROAD
KANSAS CITY KANSAS 66115

RECEIVED
MAR 14 1988
SUPERFUND BRANCH

Date 3/11/88

MEMORANDUM

SUBJECT Data Transmittal for Activity # N0P5B
Site Description Elliott Shooting Park

FROM Robert D Kleopfer, Ph D
Chief, Laboratory Branch ENSV

TO Robert L Morby
Chief, Superfund Branch WSTM

ATTN _____

Attached is the data transmittal for the above referenced site

This should be considered a ___ Partial or X Complete data transmittal

(completes transmittal of _____) If you have any questions

or comments please contact Dee Simmons at 236-3881

Attachments

cc Data File

EPA Region VII

Data Qualification Codes

U - Compound was not detected

M - Compound was qualitatively identified, however, quantitative value is less than contract required detection limits (CLP data), or value is less than limit of quantitation (EPA data)

J - Compound was qualitatively identified, however, compound failed to meet all QA criteria and, therefore, is only an estimated value

I - Analysis attempted, but no results can be reported

O - Sample lost or not analyzed

L - Value known to be higher than value reported

NA I - Sample was not analyzed for this compound

Codes for Flash Point Data

L - The sample did not ignite or "flash " This is the highest temperature at which the sample was tested It is possible that the material may be ignitable at higher temperatures

K - The sample did ignite or "flash" at the lowest temperature tested This is usually the ambient temperature at the time of the test It is possible that the material may be ignitable at even lower temperatures

FIELD SHEET

U S ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY, KS 66115

Site Name Elliot Shooting Park — Site Number
Location Raytown MO — Site Code

Collected YR 88 MO 01 Day 20 Time 1413 Leader Nobile

Sample Number NOP5B002 SMO # _____

Sample Media (circle one)
(SOIL) DUST RINSATE SEDIMENT, WATER, OTHER _____

Sample Split (circle one) YES (NO)

Sample Container	Tag Color	Preservative	Analysis Requested
1-8 oz jar			Total Lead

Depth 0-2" Pan # _____ Aliquots 10

Samplers Noble

COMMENTS OF FIELD PERSONNEL

Site Description 15 feet inside back fence

Address 7514 Maple Lane

Due to small size of yard sample pattern was set out in L shape

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FIELD SHEET

U S ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY, KS 66115

Site Name Elliot Shooting Park Site Number
Location Raytown MO Site Code

Collected YR 88 MO 01 Day 20 Time 1340 Leader Nobile

Sample Number NOP5B003 SMO # _____

Sample Media (circle one)
(SOIL,) DUST RINSATE, SEDIMENT, WATER, OTHER _____

Sample Split (circle one) YES (NO)

Sample Container	Tag Color	Preservative	Analysis Requested
1-8 oz jar			Total Lead

Depth 0 2" Pan # _____ Aliquots 10

Samplers Nobile

COMMENTS OF FIELD PERSONNEL

Site Description Sample taken 15 feet inside the back fence

Address 7525 Arlington

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FIELD SHEET

U S ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY, KS 66115

Site Name Elliot Shooting Park Site Number
Location Raytown MO Site Code

Collected YR 88 MO 01 Day 20 Time 1305 Leader Noble

Sample Number NOP5B004 SMO # _____

Sample Media (circle one)
(SOIL) DUST, RINSATE, SEDIMENT, WATER, OTHER _____

Sample Split (circle one) YES (NO)

Sample Container	Tag Color	Preservative	Analysis Requested
1-8 oz jar			Total Lead

Depth 0-2" Pan # _____ Aliquots 10

Samplers Noble

_____

COMMENTS OF FIELD PERSONNEL

Site Description Samples Taken along back fence line

Address 7507 Cresent Drive

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FIELD SHEET

U S ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY, KS 66115

Site Name Elliot Shooting Park — Site Number
Location Raytown MO — Site Code

Collected YR 88 MO 01 Day 20 Time 1252 Leader Nobile

Sample Number NOP5B005 SMO # _____

Sample Media (circle one)
(SOIL) DUST, RINSATE, SEDIMENT, WATER, OTHER _____

Sample Split (circle one) YES (NO)

Sample Container	Tag Color	Preservative	Analysis Requested
1-8 oz jar			Total Lead

Depth 0 - 2" Pan # _____ Aliquots 10

Samplers Noble

COMMENTS OF FIELD PERSONNEL

Site Description Sample taken along back fence line

Address 7509 Cresent Drive

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FIELD SHEET
U S ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY, KS 66115

Site Name Elliot Shooting Park Site Number
Location Raytown MO Site Code

Collected YR 88 MO 01 Day 20 Time 1252 Leader Nobile

Sample Number NOP5B006D SMO # _____

Sample Media (circle one)
(SOIL), DUST, RINSATE, SEDIMENT, WATER, OTHER _____

Sample Split (circle one) YES (NO)

Sample Container	Tag Color	Preservative	Analysis Requested
1-8 oz jar			Total Lead

Depth 0-2" Pan # _____ Aliquots 10

Samplers Nobile

COMMENTS OF FIELD PERSONNEL

Site Description Taken along back fence line
Duplicate of NOP5B005

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FIELD SHEET
U S ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY, KS 66115

Site Name Elliot Shooting Park — Site Number
Location Raytown MO — Site Code

Collected YR 88 MO 01 Day 20 Time 1357 Leader Nobile

Sample Number NOP5B007 SMO # _____

Sample Media (circle one)
(SOIL) DUST RINSATE, SEDIMENT, WATER OTHER _____

Sample Split (circle one) YES (NO)

Sample Container	Tag Color	Preservative	Analysis Requested
1-8 oz jar			Total Lead

Depth 0-2" Pan # _____ Aliquots 10

Samplers Nobile

COMMENTS OF FIELD PERSONNEL

Site Description 15 feet inside Back fence

Address 7527 Cresent Court

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FIELD SHEET

U S ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY, KS 66115

Site Name Elliot Shooting Park Site Number
Location Raytown MO Site Code

Collected YR 88 MO 01 Day 20 Time 1500 Leader Nobile

Sample Number NOP5B008 SMO # _____

Sample Media (circle one)
(SOIL) DUST RINSATE SEDIMENT WATER OTHER _____

Sample Split (circle one) YES (NO)

Sample Container	Tag Color	Preservative	Analysis Requested
1-8 oz jar			Total Lead

Depth 0-2" Pan # _____ Aliquots ~~75~~ Dup

Samplers Nobile

COMMENTS OF FIELD PERSONNEL

Site Description Background sample
(on slope below cemetery)
Sample collected along fence

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ANALYSIS TYPE TOTAL METALS

TITLE ELLIOTTS SHOOTING FARM
LAB EFA REGION VII
SAMPLE PREF GLM ANALYST/ENTRY GLM
MATRIX SEDIMENT
METHOD* 2001S77
REVIEWER
DATA FILE GM1
UNITS MG/KG
CASE
DATE 03/08/88

		NOF5B002	NOF5B003	NOF5B004	NOF5B005
SILVER	MG/KG	2.0U	2 0U	2 0U	2 0U
ALUMINUM	MG/KG	13000 0	11000.0	11500 0	12000 0
ARSENIC	MG/KG	20 0U	20 0U	22.0	190 0
BARIUM	MG/KG	180 0	190 0	213 0	190 0
BERYLLIUM	MG/KG	1 0U	1 0U	1 0U	1 0U
CADMIUM	MG/KG	1 0U	1 0U	1 0U	1 0U
COBALT	MG/KG	9 0	10 0	9 3	10 0
CHROMIUM	MG/KG	35 0	13 0	12 0	13 0
COPPER	MG/KG	18 0	15 0	18 0	16 0
IRON	MG/KG	17000 0	15000 0	16000 0	16000 0
MANGANESE	MG/KG	770 0	840 0	740 0	910 0
MOLYBDENUM	MG/KG	9 8	7 9	8 4	8 8
NICKEL	MG/KG	17 0	16.0	18 0	19 0
LEAD	MG/KG	36 0	32 0	46 0	88 0
ANTIMONY	MG/KG	10 0U	10 0U	10 0U	10 0U
SELENIUM	MG/KG	20 0U	20 0U	20 0U	20 0U
TITANIUM	MG/KG	N/A	N/A	N/A	N/A
THALLIUM	MG/KG	60.0U	60 0U	60 0U	60 0U
VANADIUM	MG/KG	31 0	29 0	29 0	28 0
ZINC	MG/KG	86 0	140 0	93 0	110 0
CALCIUM	MG/KG	4700 0	4900 0	4600 0	3600 0
MAGNESIUM	MG/KG	2700 0	2200 0	2400 0	2500 0
SODIUM	MG/KG	750 0	760 0	640 0	680 0
POTASSIUM	MG/KG	1600 0	1600 0	1400 0	1500 0

ANALYSIS TYPE TOTAL METALS

TITLE ELLIOTTS SHOOTING PARK MATRIX SEDIMENT UNITS MG/KG
LAB EFA REGION VII METHOD. 2001S77 CASE
SAMPLE FREF GLM ANALYST/ENTRY GLM REVIEWER DATE 03/08/88
GLM DATA FILE GM1

		NOF5P006D	NOP5B007	NOP5B008
SILVER	MG/KG	2 OU	2 OU	2 OU
ALUMINUM	MG/KG	13000 0	14000 0	10000 0
ARSENIC	MG/KG	230 0	100.0	20 OU
BARIUM	MG/KG	170 0	200 0	240 0
BERYLLIUM	MG/KG	1 OU	1 OU	1 OU
CADMIUM	MG/KG	1 OU	1 OU	1 OU
COBALT	MG/KG	7 9	16 0	8 8
CHROMIUM	MG/KG	13 0	15 0	9 4
COPPER	MG/KG	17 0	20 0	16 0
IRON	MG/KG	16000 0	18000 0	21000 0
MANGANESE	MG/KG	620 0	1200 0	1900 0
MOLYBDENUM	MG/KG	9 6	10.0	8 2
NICKEL	MG/KG	16 0	22 0	16 0
LEAD	MG/KG	100 0	34 0	30 0
ANTIMONY	MG/KG	10 OU	10 OU	10 OU
SELENIUM	MG/KG	20 OU	20 OU	20 OU
TITANIUM	MG/KG	N/A	N/A	N/A
THALLIUM	MG/KG	60 OU	60 OU	60 OU
VANADIUM	MG/KG	29 0	33 0	28 0
ZINC	MG/KG	120 0	97 0	130 0
CALCIUM	MG/KG	3800 0	4600 0	6300 0
MAGNESIUM	MG/KG	2500 0	2800 0	2000 0
SODIUM	MG/KG	710 0	730 0	850 0
POTASSIUM	MG/KG	1500 0	1600 0	970 0